Index of Claims

| App  | icatio  | n/Con  | trol | No. |
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| -Chb | IIGalio | 100011 |      |     |

10/748,432 Examiner

Kevin E. Weddington

Applicant(s)/Patent under Reexamination

ROE, CHARLES R.

Art Unit

1614

| √ | Rejected | _ | (Through numeral)<br>Cancelled | N |   | Non-Elected  | Α | Appeal   |
|---|----------|---|--------------------------------|---|---|--------------|---|----------|
| = | Allowed  | + | Restricted                     |   | ı | Interference | 0 | Objected |

| Cla  | aim         | Date     |                 |          |          |           | Claim Date                |  |          |  |          |          |               | CI      | aim             | Date     |               |         |        |       |              |                     |                 |             |         |          |                 |          |           |
|--|-------------|----------|-----------------|----------|----------|-----------|---------------------------|--|----------|--|----------|----------|---------------|---------|-----------------|----------|---------------|---------|--------|-------|--------------|---------------------|-----------------|-------------|---------|----------|-----------------|----------|-----------|
|  | -           |          |                 |          |          | Τ         |                           |  |          |  | -e       | T        |               |         | Π               |          |               |         |        |       | <del> </del> |                     |                 |             |         |          |                 |          |           |
| Final  | Original    | 90/1/9   |                 |          |          |           |                           |  |          | Final  | Original |          |               |         |                 |          |               |         |        | Final | Original     |                     |                 |             | 1       |          |                 |          |           |
| ≟  | ا <u>جُ</u> | 150      |                 |          |          |           |                           |  |          | 這  | ابر      |          |               |         |                 |          | -1            |         |        | ίĒ    | Ę            |                     |                 |             | 1       |          |                 |          |           |
|  | ٦           | Ĺ        | L l             |          |          | $\perp$   | $\perp$                   |  |          |  |          |          | L             | $\perp$ | L               |          | $\perp$       | $\perp$ |        |       | Li           |                     |                 |             | $\perp$ |          |                 |          | ╝         |
|  | 1           |          |                 |          | T        | $\top$    |                           |  | 7        |  | 51       |          | $\neg \vdash$ |         |                 |          |               |         |        |       | 101          |                     |                 |             |         |          | П               | $\Box$   |           |
|  | 2           |          |                 |          |          | $\top$    |                           | $\sqcap$   | 7        |  | 52       |          | $\neg$        |         |                 |          | $\neg \vdash$ |         |        |       | 102          |                     |                 | Т           |         |          |                 | $\Box$   |           |
|  | 3           |          |                 |          | 十        |           | İП                        | $\Box$   | 7        |  | 53       |          |               |         |                 |          | $\neg$        |         |        |       | 103          |                     |                 | $\neg \neg$ | 7       | П        | П               | T        | $\neg$    |
|  | 4           |          |                 |          | -   "    | ı         | I                         | П  | 7!!!     |  | 54       |          |               |         | П               |          | $\neg$        |         |        |       | 104          |                     | $\neg \vdash$   | $\top$      |         |          |                 |          | ٦         |
|  | 5           |          | $\Box$          | $\neg$   |          |           |                           | $\Box$   |          |  | 55       |          |               |         |                 |          |               | 1       |        |       | 105          |                     | T               | T           | T       |          | П               | T        | ٦         |
|  | 6           |          | $\Box$          |          | "        | 1         |                           |  | 7        |  | 56       |          |               |         |                 |          | $\top$        |         |        |       | 106          |                     |                 |             | T       | Г        |                 | T        | $\neg$    |
|  | 7           |          | T               | T        |          | Ŧ         |                           |  | 7        |  | 57       | $\Box$   | $\neg$        |         |                 |          | $\top$        |         |        |       | 107          |                     |                 | Т           | 1       |          | П               | T        | $\neg$    |
|  | 8           | _        |                 | $\neg$   | $\neg$   | $\top$    | $\Box$                    |  | 7        |  | 58       |          | ┱             |         |                 |          |               | T       |        |       | 108          |                     |                 | T           | 1       | Π        | П               | 丁        | ヿ         |
| $\Box$   | 9           |          | $\Box$          | _        | $\top$   | $\top$    | $\Box$                    |  | 7        |  | 59       |          |               |         |                 |          |               | 1       |        |       | 109          |                     |                 |             | $\top$  | Γ        | П               | ヿ        | ヿ         |
|  | 10          |          |                 |          |          |           |                           |  | 7        |  | 60       |          | $\neg \vdash$ | 1       |                 | $\neg$   | $\neg$        | T       |        |       | 110          |                     |                 | 7           | T       |          | П               | $\Box$   | ٦         |
|  | 11          | Г        |                 | $\neg$   |          | $\top$    | lП                        | $\Box$   | 7::::    |  | 61       |          |               | 1       | П               | $\neg$   | $\neg \vdash$ | 1       |        |       | 111          |                     |                 | $\top$      | 1       |          | П               | T        | $\neg$    |
| $\Box$   | 12          |          | $\Box$          | $\top$   | $\top$   | $\top$    | I                         |  | 7        |  | 62       |          | _             | 1       | П               | _        | $\neg$        | Ť       |        |       | 112          | $\Box$              |                 | $\top$      | T       | Π        | $\Box$          | 丁        | $\neg$    |
| $\Box$   | 13          | Г        | $\Box$          | 7        |          | 1         | $\sqcap$                  | $\vdash$ $\vdash$                                | 7        |  | 63       | $\neg$   | $\neg \vdash$ | 1       | П               | $\neg$   | $\top$        | Τ       |        |       | 113          | $\Box$              | 十               | $\top$      | 1       | П        | П               | 寸        | $\neg$    |
|  | 14          |          | H               | 十        | 一        | 十         | $\dagger \exists \dagger$ | $\vdash$   | 7        |  | 64       | $\Box$   | $\dashv$      | 1       | $\Box$          | $\neg$   | $\top$        | Τ       |        |       | 114          | $\sqcap$            | $\neg \uparrow$ | $\top$      | T       | Π        | П               | 寸        | $\exists$ |
| $\Box$   | 15          | 7        | $\Box$          | $\dashv$ |          | $\top$    | 1-1                       | $\vdash$   | 7        |  | 65       | $\dashv$ | $\dashv$      | $\top$  | $\Box$          |          | 1             | 1       |        |       | 115          | $\Box$              |                 | 1           | $\top$  |          | П               | 寸        | $\neg$    |
|  | 16          |          | H               | 十        | - -      | $\dagger$ | T                         |  | 7        |  | 66       | $\Box$   | $\dashv$      | $\top$  | $\vdash$        | $\neg$   | $\top$        | $\top$  |        |       | 116          | $\Box$              |                 | 1           | T       |          | П               | ヿ        | $\neg$    |
|  | 17          | U        | H               | $\dashv$ | $\dashv$ | $\top$    | $\dagger \exists \dagger$ |  | 7        |  | 67       | $\dashv$ | $\dashv$      | $\top$  | $\sqcap$        | 十        | $\neg \vdash$ | Τ       |        |       | 117          | $\Box$              | $\dashv$        | 1           | 1       | T        | П               | 十        | $\exists$ |
|  | 18          | V        |                 | 十        |          | ╅         |                           |  | ┨᠁       |  | 68       | $\dashv$ | $\dashv$      | 十       | $\Box$          | $\dashv$ | - -           | +       |        |       | 118          |                     |                 | $\top$      | $\top$  |          | Н               | 十        | ヿ         |
|  | 19          |          | $\dashv$        |          | _        |           | +                         | $\vdash$   | ┨᠁       |  | 69       | $\dashv$ | $\dashv$      | +       | $\vdash$        | $\dashv$ | -             | 1       |        |       | 119          |                     |                 | ╅           | 1       |          | H               | 十        | ヿ         |
|  | 20          | Т        | $\dashv$        | 十        | ┪        | ╅         | $\vdash$                  |  | ┨᠁       |  | 70       | _        | $\dashv$      | ╅       | $\vdash$        | $\neg$   | $\dashv$      | +       |        |       | 120          |                     | $\dashv$        | 十           | 1       |          | $\vdash$        | 7        | ヿ         |
|  | 21          | レ        |                 | 一        | _        | +         | ╁┼                        | -  | -        |  | 71       | 1        | _             | +-      | $\vdash$        | $\dashv$ | $\dashv$      | 1-      |        | _     | 121          |                     | _               | _           |         |          | H               | 寸        | $\dashv$  |
| _  | 22          | Ť        | $\dashv$        | 一        | $\dashv$ | 十一        | ╁                         |  |          |  | 72       | +        | _             | 1       | $\vdash$        | $\dashv$ | $\dashv$      | +       |        |       | 122          |                     |                 | 十           | +       | $\vdash$ |                 | 寸        | $\exists$ |
|  | 23          | H        | $\dashv$        | 十        |          | +         | $\dagger = \dagger$       |  | ┦        |  | 73       | -        | _             | +-      | $\vdash$        | $\dashv$ | $\dashv$      | 1-      |        |       | 123          |                     | $\dashv$        | 十           | +       |          | $\vdash$        | 十        | ᅱ         |
| $\vdash$   | 24          | H        | $\dashv$        | 一        | $\dashv$ | +         | $\Box$                    | $\vdash$   | -        |  | 74       | $\dashv$ | $\dashv$      | +       | $\vdash$        | $\dashv$ | $\top$        | +       |        |       | 124          |                     |                 | $\dashv$    | 1       | H        | H               | 十        | $\dashv$  |
|  | 25          | H        | $\vdash$        | $\dashv$ |          | ┰         | +                         |  |          |  | 75       | $\dashv$ | _             | +       | $\vdash$        | 十        | $\dashv$      | ╁┈      |        |       | 125          | $\vdash$            | _               | 十           | +       |          | $\vdash$        | 十        | $\dashv$  |
| $\vdash$   | 26          | ╫        | H               | -        |          |           | ╁                         |  |          |  | 76       | -        | - -           |         | 1-1             | $\dashv$ | $\dashv$      | +       |        |       | 126          | $\dashv$            |                 | ╅           | -       | $\vdash$ | $\vdash$        | 十        | ᅥ         |
|  | 27          | ╫╴       | $\vdash$        | $\neg +$ | $\dashv$ | +         | 1 1                       | $\vdash$   | -        |  | 77       | $\dashv$ |               | ┰       | $\vdash$        | $\dashv$ | $\dashv$      | $\top$  |        |       | 127          | $\vdash$            | _               | ╅┈          | +-      | $\vdash$ | $\vdash$        | 十        | $\dashv$  |
|  | 28          | H        | $\vdash$        | -+       | +        | +-        | ╁╌┤                       | $\vdash$   | -        |  | 78       | $\dashv$ | 十             | +       | $\vdash$        | -+       | $\dashv$      | +-      |        | _     | 128          | $\vdash$            |                 | +-          | +-      | $\vdash$ | $\vdash$        | 十        | $\dashv$  |
|  | 29          | ╫        | $\vdash$        | $\dashv$ |          | ╁         | +-                        |  | $\dashv$ |  | 79       | $\dashv$ | +             | +       | $\vdash$        | -+       | +             | +-      |        |       | 129          | -                   | $\dashv$        | ╅           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
|  | 30          | ╂╴       | Н               |          | $\dashv$ | ╁         | 1-1                       |  |          |  | 80       | $\dashv$ | +             | +       | ┼─┤             | -        | +             | +-      |        |       | 130          |                     | _               | ╅           | +       | -        | $\vdash$        | $\dashv$ | $\dashv$  |
|  | 31          | ₩        | $\vdash$        | -        | $\dashv$ | +         | +                         | $\vdash$   | $\dashv$ | $\vdash$   | 81       | -        | +             | +       | ╂─┨             | -+       | +             | +-      |        |       | 131          |                     | -               | ╅           | +       | ╁╌       | $\vdash$        | $\dashv$ | $\dashv$  |
| $\vdash$   | 32          | +        | $\vdash$        | +        | $\dashv$ | +         | +                         | +  | -        | $\vdash$   | 82       | +        | +-            | +       | $\vdash$        | $\dashv$ |               | ╁╴      |        |       | 132          | $\vdash$            | $\dashv$        | +           | +       | $\vdash$ |                 | $\dashv$ | $\dashv$  |
| <del>                                     </del> | 33          | +        | $\vdash$        | -+       | - -      | +         | +                         | $\vdash$   | -        | <del> </del>                                     | 83       | $\dashv$ |               | +       | $\vdash \vdash$ | $\dashv$ | +             | +       |        |       | 133          | $\vdash$            | $\dashv$        | +-          | +-      | $\vdash$ | $\vdash \vdash$ | 十        | $\dashv$  |
| $\vdash$   | 34          | H        | $\vdash$        | $\dashv$ |          | +         | +                         | ┝┿   | -        | $\vdash$   | 84       | $\dashv$ | +             | +       | ┥               | $\dashv$ | +             | +       |        | _     | 134          | $\vdash$            | $\dashv$        | +           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| <del>  </del>                                    | 35          | H        | $\dashv$        | +        | +        | ╁         | 1-                        | <del>                                     </del> | -        | $\vdash$   | 85       | +        | +             | +-      | $\vdash$        | $\dashv$ | $\dashv$      | +-      |        |       | 135          | $\dashv$            | $\dashv$        | +           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
|  |             | 4        | $\vdash \vdash$ | +        | +        | +         | +                         | $\vdash$   | -        | $\vdash$   | 86       | $\dashv$ | +             | +       | $\vdash$        | +        | +             | +       |        |       | 136          | $\dashv$            | $\dashv$        | +           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| <u> </u>   | 37          | <b>-</b> | $\vdash \vdash$ | -+       | +        | +         | +                         | $\vdash$   | - :::    | $\vdash$   | 87       | -        | - -           | +       | $\vdash$        | -+       | +             | +       |        |       | 137          | $\dashv$            |                 | +           | +       | ╁        | $\vdash$        | $\dashv$ | $\dashv$  |
| $\vdash$   | 38          | $\vdash$ | $\dashv$        | +        | $\dashv$ | +-        | ┼┤                        | <del>                                     </del> | - :::    | <del> </del>                                     | 88       | $\dashv$ | -             | +       | $\vdash$        | +        |               | ╁       |        |       | 138          | $\vdash$            |                 | +           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| ┝  | 39          | $\vdash$ | $\vdash$        | $\dashv$ |          | +         | +                         | $\vdash$   | -        | <u> </u>   | 89       | +        | $\dashv$      | +       | $\vdash$        | +        | - -           | +       |        |       | 139          | $\dashv$            | $\dashv$        | +           | +-      | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| $\vdash$   | 40          | -        | $\vdash$        | +        |          | +         | +                         | $\vdash$   | -        | <del>                                     </del> | 90       | -        | +             | +       | $\vdash$        | $\dashv$ | +             | +       |        |       | 140          | -                   | +               | +           | +-      | +-       | $\vdash \vdash$ | $\dashv$ | $\dashv$  |
| <del>                                     </del> |             | H        | $\vdash$        | -+       |          | +-        | 1-1                       | <del>   </del>                                   | -        | $\vdash$   | 91       | $\dashv$ | +             | +-      | $\vdash$        | $\dashv$ | +             | +       |        |       | 141          | ⊢┼                  | +               | +           | +       | ╁╾       |                 | $\dashv$ | $\dashv$  |
| ┝╼╡  | 41<br>42    | $\vdash$ | $\vdash \vdash$ | $\dashv$ | +        | +-        | +                         | $\vdash \vdash$                                  | -        | $\vdash$   | 92       | $\dashv$ |               | +       | ╁╌┤             | $\dashv$ |               | +-      |        |       | 141          | $\dashv$            | $\dashv$        | +           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| <del>                                     </del> |             | $\vdash$ | $\vdash \vdash$ | +        | -        | +         | +                         | $\vdash$   | - :::    | <u> </u>   | 93       | $\dashv$ |               | +       | ╁┤              | $\dashv$ |               | ╁       |        |       |              | $\vdash$            | $\dashv$        | ╫           | +       | ┼        | $\vdash$        | $\dashv$ | $\dashv$  |
| <b> </b>   | 43          | H        | $\vdash \vdash$ | $\dashv$ |          | ╁         | ╀┤                        | $\vdash \vdash$                                  | - :::    | <u> </u>   | 93       | $\dashv$ | +             | +       | ╁╌┤             | $\dashv$ | +             | +       |        |       | 143<br>144   | ⊢┼                  | +               | +           | +       | +-       | $\vdash$        | $\dashv$ | -         |
| ┝──  | 44          | H        | $\vdash$        | +        |          | +         | +                         | $\vdash \vdash$                                  | -        | <u> </u>   |          | -        |               | +       | $\vdash$        | $\dashv$ | +             | +-      |        |       |              | $\vdash$            | $\dashv$        | +           | +       | ⊢        | ┝╌┤             | $\dashv$ | $\dashv$  |
| <b>  </b>  | 45          | $\vdash$ | $\dashv$        | $\dashv$ | - -      | +         | +                         | $\vdash$   | -        |  | 95       | $\dashv$ | -+-           | +       | $\vdash$        | $\dashv$ | +             | +       |        |       | 145          | $\vdash \vdash$     |                 | +           | +       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| $\vdash$   | 46          | -        | ⊢⊢              | +        |          | +-        | +                         | $\vdash \vdash$                                  | - :::    | <u> </u>   | 96       | $\dashv$ | +             | +       | $\vdash$        | $\dashv$ | +             | +       |        |       | 146          |                     | -+-             | ╌           | +       | $\vdash$ |                 | $\dashv$ | $\dashv$  |
| <u> </u>   | 47          | <u> </u> | $\vdash$        | 4        | - -      | +         | $\vdash$                  | $\vdash \vdash$                                  | -        | <u> </u>   | 97       | $\dashv$ | +             | +       | $\vdash \vdash$ | $\dashv$ | +             | -       |        |       | 147          | $\vdash \downarrow$ |                 |             |         | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$  |
| _  | 48          | <u> </u> | $\vdash \vdash$ | 4        | - -      |           | +                         | $\vdash$   | -        | <u> </u>   | 98       | $\dashv$ | -             | +-      | $\vdash \vdash$ | $\perp$  | $\dashv$      | +       |        |       | 148          |                     |                 | - -         | +-      | $\vdash$ | $\vdash \vdash$ | -+       | $\dashv$  |
|  | 49          | _        | $\vdash$        | 4        | - -      | +-        | +                         | -  | -        | <u> </u>   | 99       | $\dashv$ | -             | +-      | ┰               | -        | -             | +       |        |       | 149          | $\dashv$            | +               | - -         | +-      | $\vdash$ | $\vdash$        | $\dashv$ | -         |
| نـــــا  | 50          |          |                 | L        |          |           |                           | للبا   | _]::::   |  | 100      |          | L_            |         |                 |          |               |         | J::::: |       | 150          |                     |                 | ┸           |         | 1        | LЬ              | $\perp$  |           |